

Chemical Properties of the Soils

Covington County, Alabama

NOTE: Absence of an entry indicates that data were not estimated.

| Map symbol and soil name | Depth | Cation exchange capacity | Effective cation exchange capacity | Soil reaction | Calcium carbon- ate | Gypsum | Salinity | Sodium adsorp- tion ratio |
|-----------------------------|-------|--------------------------------|---|------------------|---------------------------|--------|----------|------------------------------------|
| | In | meq/100 g | meq/100 g | pH | Pct | Pct | mmhos/cm | |
| ArE: | | | | | | | | |
| Arundel----- | 0-6 | --- | --- | 3.6-5.5 | --- | --- | 0 | --- |
| | 6-30 | --- | --- | 3.6-4.4 | --- | --- | 0 | --- |
| | 30-60 | --- | --- | --- | --- | --- | 0 | --- |
| BgA: | | | | | | | | |
| Bigbee----- | 0-10 | --- | --- | 4.5-6.0 | --- | --- | 0 | --- |
| | 10-80 | --- | --- | 4.5-6.0 | --- | --- | 0 | --- |
| BnB: | | | | | | | | |
| Blanton----- | 0-62 | --- | 1.0-8.0 | 4.5-6.0 | 0 | 0 | 0.0-2.0 | 0 |
| | 62-80 | --- | 5.0-10 | 4.5-5.5 | 0 | 0 | 0.0-2.0 | 0 |
| BnC: | | | | | | | | |
| Blanton----- | 0-54 | --- | 1.0-8.0 | 4.5-6.0 | 0 | 0 | 0.0-2.0 | 0 |
| | 54-80 | --- | 5.0-10 | 4.5-5.5 | 0 | 0 | 0.0-2.0 | 0 |
| BoB: | | | | | | | | |
| Bonifay----- | 0-52 | 2.0-6.0 | --- | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 52-72 | 3.0-20 | --- | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| BoC: | | | | | | | | |
| Bonifay----- | 0-50 | 2.0-6.0 | --- | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| | 50-70 | 3.0-20 | --- | 4.5-6.5 | 0 | 0 | 0.0-2.0 | 0 |
| CaA: | | | | | | | | |
| Chrysler----- | 0-10 | --- | --- | 4.5-5.5 | 0 | 0 | 0 | 0 |
| | 10-68 | --- | --- | 4.5-5.5 | 0 | 0 | 0 | 0 |
| CdB: | | | | | | | | |
| Cowarts----- | 0-6 | --- | 2.0-8.0 | 4.5-5.5 | 0 | 0 | 0 | 0 |
| | 6-18 | --- | 2.0-10 | 4.5-5.5 | 0 | 0 | 0 | 0 |
| | 18-28 | --- | 2.0-10 | 4.5-5.5 | 0 | 0 | 0 | 0 |
| | 28-60 | --- | 2.0-8.0 | 4.5-5.5 | 0 | 0 | 0 | 0 |
| Dothan----- | 0-12 | --- | --- | 4.5-6.0 | --- | --- | 0 | --- |
| | 12-46 | --- | --- | 4.5-6.0 | --- | --- | 0 | --- |
| | 46-60 | --- | --- | 4.5-6.0 | --- | --- | 0 | --- |
| CdC: | | | | | | | | |
| Cowarts----- | 0-5 | --- | 2.0-8.0 | 4.5-5.5 | 0 | 0 | 0 | 0 |
| | 5-25 | --- | 2.0-10 | 4.5-5.5 | 0 | 0 | 0 | 0 |
| | 25-60 | --- | 2.0-8.0 | 4.5-5.5 | 0 | 0 | 0 | 0 |
| Dothan----- | 0-6 | --- | --- | 4.5-6.0 | --- | --- | 0 | --- |
| | 6-42 | --- | --- | 4.5-6.0 | --- | --- | 0 | --- |
| | 42-60 | --- | --- | 4.5-6.0 | --- | --- | 0 | --- |
| CuC: | | | | | | | | |
| Cowarts----- | 0-6 | --- | 2.0-8.0 | 4.5-5.5 | 0 | 0 | 0 | 0 |
| | 6-23 | --- | 2.0-10 | 4.5-5.5 | 0 | 0 | 0 | 0 |
| | 23-60 | --- | 2.0-8.0 | 4.5-5.5 | 0 | 0 | 0 | 0 |
| Urban Land----- | 0-60 | --- | --- | --- | --- | --- | 0 | --- |

Chemical Properties of the Soils, cont.

Covington County, Alabama

| Map symbol and soil name | Depth | Cation exchange capacity | Effective cation exchange capacity | Soil reaction | Calcium carbon- ate | Gypsum | Salinity | Sodium adsorp- tion ratio |
|-----------------------------|-------|--------------------------------|---|------------------|---------------------------|--------|----------|------------------------------------|
| | In | meq/100 g | meq/100 g | pH | Pct | Pct | mmhos/cm | |
| DaA: | | | | | | | | |
| Dorovan----- | 0-1 | --- | --- | 3.6-4.4 | --- | --- | 0 | --- |
| | 1-70 | --- | --- | 3.6-4.4 | --- | --- | 0 | --- |
| DmA: | | | | | | | | |
| Dothan----- | 0-10 | --- | --- | 4.5-6.0 | --- | --- | 0 | --- |
| | 10-48 | --- | --- | 4.5-6.0 | --- | --- | 0 | --- |
| | 48-60 | --- | --- | 4.5-6.0 | --- | --- | 0 | --- |
| Malbis----- | 0-10 | --- | --- | 4.5-6.0 | --- | --- | 0 | --- |
| | 10-24 | --- | --- | 4.5-5.5 | --- | --- | 0 | --- |
| | 24-48 | --- | --- | 4.5-5.5 | --- | --- | 0 | --- |
| | 48-72 | --- | --- | 4.5-5.5 | --- | --- | 0 | --- |
| DmB: | | | | | | | | |
| Dothan----- | 0-12 | --- | --- | 4.5-6.0 | --- | --- | 0 | --- |
| | 12-44 | --- | --- | 4.5-6.0 | --- | --- | 0 | --- |
| | 44-75 | --- | --- | 4.5-6.0 | --- | --- | 0 | --- |
| Malbis----- | 0-9 | --- | --- | 4.5-6.0 | --- | --- | 0 | --- |
| | 9-22 | --- | --- | 4.5-5.5 | --- | --- | 0 | --- |
| | 22-46 | --- | --- | 4.5-5.5 | --- | --- | 0 | --- |
| | 46-72 | --- | --- | 4.5-5.5 | --- | --- | 0 | --- |
| DuC: | | | | | | | | |
| Dothan----- | 0-8 | --- | --- | 4.5-6.0 | --- | --- | 0 | --- |
| | 8-48 | --- | --- | 4.5-6.0 | --- | --- | 0 | --- |
| | 48-66 | --- | --- | 4.5-6.0 | --- | --- | 0 | --- |
| Urban Land----- | 0-60 | --- | --- | --- | --- | --- | 0 | --- |
| EsC: | | | | | | | | |
| Esto----- | 0-4 | --- | --- | 3.6-5.5 | 0 | 0 | 0 | 0 |
| | 4-60 | --- | --- | 3.6-5.5 | 0 | 0 | 0 | 0 |
| EuA: | | | | | | | | |
| Eunola----- | 0-5 | --- | 2.0-10 | 4.5-5.5 | 0 | 0 | 0 | 0 |
| | 5-24 | --- | 2.0-12 | 4.5-5.5 | 0 | 0 | 0 | 0 |
| | 24-44 | --- | 2.0-12 | 4.5-5.5 | 0 | 0 | 0 | 0 |
| | 44-60 | --- | 1.0-6.0 | 4.5-5.5 | 0 | 0 | 0 | 0 |
| FoA: | | | | | | | | |
| Floralda----- | 0-8 | --- | --- | 4.5-5.5 | --- | --- | 0 | --- |
| | 8-36 | --- | --- | 4.5-5.5 | --- | --- | 0 | --- |
| | 36-72 | --- | --- | 4.5-5.5 | --- | --- | 0 | --- |
| FuB: | | | | | | | | |
| Fuquay----- | 0-30 | --- | --- | 4.5-6.0 | 0 | 0 | 0 | 0 |
| | 30-37 | --- | --- | 4.5-6.0 | 0 | 0 | 0 | 0 |
| | 37-66 | --- | --- | 4.5-6.0 | 0 | 0 | 0 | 0 |
| GrA: | | | | | | | | |
| Grady----- | 0-18 | --- | --- | 3.6-5.5 | --- | --- | 0 | --- |
| | 18-60 | --- | --- | 3.6-5.5 | --- | --- | 0 | --- |
| IbA: | | | | | | | | |
| Iuka----- | 0-9 | --- | --- | 5.1-6.0 | --- | --- | 0 | --- |
| | 9-34 | --- | --- | 4.5-5.5 | --- | --- | 0 | --- |
| | 34-60 | --- | --- | 4.5-5.5 | --- | --- | 0 | --- |
| Bibb----- | 0-40 | --- | 4.0-7.0 | 3.6-5.5 | 0 | 0 | 0 | 0 |
| | 40-60 | --- | 4.0-10 | 3.6-5.5 | 0 | 0 | 0 | 0 |

Chemical Properties of the Soils, cont.

Covington County, Alabama

| Map symbol and soil name | Depth | Cation exchange capacity | Effective cation exchange capacity | Soil reaction | Calcium carbon- ate | Gypsum | Salinity | Sodium adsorp- tion ratio |
|-----------------------------|-------|--------------------------------|---|------------------|---------------------------|--------|----------|------------------------------------|
| | In | meq/100 g | meq/100 g | pH | Pct | Pct | mmhos/cm | |
| KaA: | | | | | | | | |
| Kalmia----- | 0-8 | --- | --- | 4.5-6.0 | --- | --- | 0 | --- |
| | 8-34 | --- | --- | 4.5-5.5 | --- | --- | 0 | --- |
| | 34-60 | --- | --- | 4.5-5.5 | --- | --- | 0 | --- |
| LuB: | | | | | | | | |
| Lucy----- | 0-29 | --- | --- | 5.1-6.0 | --- | --- | 0 | --- |
| | 29-35 | --- | --- | 4.5-5.5 | --- | --- | 0 | --- |
| | 35-60 | --- | --- | 4.5-5.5 | --- | --- | 0 | --- |
| LyA: | | | | | | | | |
| Lynchburg----- | 0-16 | --- | 2.0-6.0 | 3.6-5.5 | 0 | 0 | 0 | 0 |
| | 16-65 | --- | 2.0-7.0 | 3.6-5.5 | 0 | 0 | 0 | 0 |
| | 65-80 | --- | 2.0-7.0 | 3.6-5.5 | --- | --- | --- | --- |
| MaA: | | | | | | | | |
| Maxton----- | 0-15 | --- | --- | 4.5-6.0 | --- | --- | 0 | --- |
| | 15-34 | --- | --- | 4.5-5.5 | --- | --- | 0 | --- |
| | 34-60 | --- | --- | 4.5-5.5 | --- | --- | 0 | --- |
| MBA: | | | | | | | | |
| Muckalee----- | 0-10 | --- | --- | 5.1-7.3 | --- | --- | 0 | --- |
| | 10-60 | --- | --- | 5.6-8.4 | --- | --- | 0 | --- |
| Bibb----- | 0-38 | --- | 4.0-10 | 3.6-5.5 | 0 | 0 | 0 | 0 |
| | 38-65 | --- | 4.0-10 | 3.6-5.5 | 0 | 0 | 0 | 0 |
| Osier----- | 0-19 | --- | --- | 3.6-6.0 | --- | --- | 0 | --- |
| | 19-54 | --- | --- | 3.6-6.0 | --- | --- | 0 | --- |
| | 54-60 | --- | --- | 3.6-6.0 | --- | --- | 0 | --- |
| OrA: | | | | | | | | |
| Orangeburg----- | 0-8 | --- | 1.0-2.0 | 4.5-6.0 | 0 | 0 | 0 | 0 |
| | 8-18 | --- | 2.0-3.0 | 4.5-6.0 | 0 | 0 | 0 | 0 |
| | 18-48 | --- | 2.5-4.0 | 4.5-5.5 | 0 | 0 | 0 | 0 |
| | 48-72 | --- | 2.0-3.0 | 4.5-5.5 | 0 | 0 | 0 | 0 |
| OrB: | | | | | | | | |
| Orangeburg----- | 0-8 | --- | 1.0-2.0 | 4.5-6.0 | 0 | 0 | 0 | 0 |
| | 8-14 | --- | 2.0-3.0 | 4.5-6.0 | 0 | 0 | 0 | 0 |
| | 14-48 | --- | 2.5-4.0 | 4.5-5.5 | 0 | 0 | 0 | 0 |
| | 48-60 | --- | 2.0-3.0 | 4.5-5.5 | 0 | 0 | 0 | 0 |
| OrC: | | | | | | | | |
| Orangeburg----- | 0-6 | --- | 1.0-2.0 | 4.5-6.0 | 0 | 0 | 0 | 0 |
| | 6-40 | --- | 2.5-4.0 | 4.5-5.5 | 0 | 0 | 0 | 0 |
| | 40-60 | --- | 2.0-3.0 | 4.5-5.5 | 0 | 0 | 0 | 0 |
| OrE: | | | | | | | | |
| Orangeburg----- | 0-5 | --- | 1.0-2.0 | 4.5-6.0 | 0 | 0 | 0 | 0 |
| | 5-28 | --- | 2.5-4.0 | 4.5-5.5 | 0 | 0 | 0 | 0 |
| | 28-60 | --- | 2.0-3.0 | 4.5-5.5 | 0 | 0 | 0 | 0 |
| OuC: | | | | | | | | |
| Orangeburg----- | 0-8 | --- | 1.0-2.0 | 4.5-6.0 | 0 | 0 | 0 | 0 |
| | 8-14 | --- | 2.0-3.0 | 4.5-6.0 | 0 | 0 | 0 | 0 |
| | 14-38 | --- | 2.5-4.0 | 4.5-5.5 | 0 | 0 | 0 | 0 |
| | 38-60 | --- | 2.0-3.0 | 4.5-5.5 | 0 | 0 | 0 | 0 |
| Urban Land----- | 0-60 | --- | --- | --- | --- | --- | 0 | --- |
| PIT: | | | | | | | | |
| Pits----- | 0-60 | --- | --- | --- | --- | --- | 0 | --- |

Chemical Properties of the Soils, cont.

Covington County, Alabama

| Map symbol and soil name | Depth | Cation exchange capacity | Effective cation exchange capacity | Soil reaction | Calcium carbon- ate | Gypsum | Salinity | Sodium adsorp- tion ratio |
|-----------------------------|-------|--------------------------------|---|------------------|---------------------------|--------|----------|------------------------------------|
| | In | meq/100 g | meq/100 g | pH | Pct | Pct | mmhos/cm | |
| RaA: | | | | | | | | |
| Rains----- | 0-20 | --- | 1.0-5.0 | 3.6-6.5 | 0 | 0 | 0 | 0 |
| | 20-45 | --- | 2.0-5.0 | 3.6-5.5 | 0 | 0 | 0 | 0 |
| | 45-65 | --- | 2.0-7.0 | 3.6-5.5 | 0 | 0 | 0 | 0 |
| RbA: | | | | | | | | |
| Rains----- | 0-8 | 1.0-6.0 | --- | 4.5-6.5 | 0 | 0 | 0 | 0 |
| | 8-48 | --- | 2.0-5.0 | 4.5-5.5 | 0 | 0 | 0 | 0 |
| | 48-69 | --- | 2.0-7.0 | 4.5-5.5 | 0 | 0 | 0 | 0 |
| Bethera----- | 0-18 | --- | 2.0-6.0 | 3.6-6.0 | 0 | 0 | 0 | 0 |
| | 18-76 | --- | 8.0-20 | 3.6-6.0 | 0 | 0 | 0 | 0 |
| RdB: | | | | | | | | |
| Red Bay----- | 0-11 | --- | --- | 4.5-6.0 | --- | --- | 0 | --- |
| | 11-42 | --- | --- | 4.5-6.0 | --- | --- | 0 | --- |
| | 42-72 | --- | --- | 4.5-5.5 | --- | --- | 0 | --- |
| SmE: | | | | | | | | |
| Smithdale----- | 0-11 | --- | --- | 4.5-5.5 | --- | --- | 0 | --- |
| | 11-46 | --- | --- | 4.5-5.5 | --- | --- | 0 | --- |
| | 46-60 | --- | --- | 4.5-5.5 | --- | --- | 0 | --- |
| TrB: | | | | | | | | |
| Troup----- | 0-47 | --- | --- | 4.5-6.0 | --- | --- | 0 | --- |
| | 47-80 | --- | --- | 4.5-5.5 | --- | --- | 0 | --- |
| TrD: | | | | | | | | |
| Troup----- | 0-50 | --- | --- | 4.5-6.0 | --- | --- | 0 | --- |
| | 50-72 | --- | --- | 4.5-5.5 | --- | --- | 0 | --- |
| TUE: | | | | | | | | |
| Troup----- | 0-60 | --- | --- | 4.5-6.0 | --- | --- | 0 | --- |
| | 60-72 | --- | --- | 4.5-5.5 | --- | --- | 0 | --- |
| Luverne----- | 0-12 | --- | --- | 3.6-5.5 | --- | --- | 0 | --- |
| | 12-28 | --- | --- | 3.6-5.5 | --- | --- | 0 | --- |
| | 28-44 | --- | --- | 3.6-5.5 | --- | --- | 0 | --- |
| | 44-60 | --- | --- | 3.6-5.5 | --- | --- | 0 | --- |